

IN THE UNITED STATES OF AMERICA
PATENT AND TRADEMARK OFFICE

APPLICANT: Mark Aston

SERIAL NO.: 10/026,919

TITLE: Overlapping Array Display

FILING DATE: December 21, 2001

ATTY. NO.: 16515/95349-00

CERTIFICATE OF MAILING

Date of Deposit: September 8, 2003

I hereby certify that the following attached paper or fee:

- Petition for Extension of Time (2 pgs.);
- Response to Office Action (14 pgs.);
- Unmarked Copy of Substitute Specification (9 pgs.);
- 7 Sheets of Replacement Figures 1-14;
- Certified Copy of Priority Document;
- Check for \$110.00 (extension fee);
- Certificate of Mailing; and
- Stamped, return postcard;

is being deposited with the United States Postal Service on the date indicated above and is addressed to
Mail Stop **FEE RESPONSE**, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



Tina G. Matz

B0186479.1

CLAIMS LISTING

Claims 1-5 (canceled).

Claim 6 (currently amended). A display comprising a plurality of substrates, each comprising a first portion to support a display region incorporating an Organic Light Emitting Device (OLED) material with a plurality of separately addressable pixel elements, and a second portion which underlies part of another substrate, wherein the first portion and the second portion of a substrate are not in the same plane.

Claim 7 (canceled).

Claim 8 (currently amended). A display according to ~~Claim 6 or 7~~ Claim 6 wherein the first portion and the second portion of a substrate are in substantially parallel planes.

Claim 9 (currently amended). A display according to ~~any one or more of Claims 6 to 8~~ Claim 6 wherein the first and second portions of a substrate are in a stepped relationship.

Claim 10 (currently amended). A display according to ~~any one or more of Claims 6 to 9~~ Claim 6 wherein the first and second portions of a substrate are arranged generally in a U-shape.

Claim 11 (currently amended). A display according to ~~any one or more of Claims 6 to 10~~ Claim 6 wherein the second portion incorporates wiring and/or electrical connections.

Claim 12 (currently amended). A display according to ~~any one or more of Claims 6 to 11~~ Claim 6, wherein the first portion comprises a substrate to hold a glass panel of OLED material.

Claim 13 (currently amended). A display according to ~~any one or more of Claims 6 to 12~~ Claim 6 wherein the first portion comprises a moulded substrate of ~~plastics~~ plastic material.

Claim 14 (currently amended). A display according to ~~any one or more of Claims 6 to 13~~ Claim 6 comprising heat seal means to ensure high integrity connection of the display to drive electronics.

Claim 15 (currently amended). A display according to ~~any preceding claim~~ Claim 6 wherein the pixel elements have integral means to generate illumination.

Claim 16 (currently amended). A display according to ~~any preceding claim~~ Claim 6 comprising means to effect back lighting illumination of a plurality of pixel elements.

5 Claim 17 (canceled).

Claim 18 (new). A display according to Claim 6 comprising a plurality of display regions, each incorporating Organic Light Emitting Device (OLED) material, each region comprising

- a. a plurality of separately addressable pixel elements; and
- b. one or more of the display region(s) overlying a portion of one or more adjacent

10 display region(s).

Claim 19 (new). A display according to Claim 6 wherein one or more further display regions overlie part of another display region(s).

Claim 20 (new). A display array according to Claim 6 wherein portions of display areas which lie underneath other display areas incorporate at least one of wiring or electrical connections.

15 Claim 21 (new). A display according to Claim 6 comprising a plurality of display regions which overlie part of a display region of at least one of a laterally or orthogonally adjacent display region.

Claim 22 (new). A display according to Claim 6 wherein the display regions form a substantially continuous display surface over the array.

20 Claim 23 (new). A display according to Claim 6 wherein a substrate has a compound angle to allow tiling of substrates.

Claim 24 (new). A display comprising a plurality of display tiles, each of said display tiles further including:

- a. a support member;
 - b. a printed circuit board positioned on said support member;
 - c. a panel having an OLED element operatively connected to said circuit board; and
 - d. wherein said display tiles are positioned in an overlapping array to form a
- 5 substantially two-dimensional display.

Claim 25 (new). A display comprising:

- a. a support member;
 - b. a plurality of separate rigid display tiles positioned on said support member; and
 - c. wherein each of said display tiles overlaps a first adjacent display tile and is
- 10 overlapped by a second adjacent display tile, thereby forming a substantially two-dimensional array display.